Homework assignment 5

Case 1:

The table shows height and muscle strength in 20 men. Evaluate the degree of association between height and muscle strength.

Height (cm)	171	172	173	173	175	176	176	176	176	176
Quadriceps muscle strength (N)	147	441	343	441	294	304	404	396	196	412
Height (cm)	176	177	177	177	178	179	179	180	182	183
Quadriceps muscle strength (N)	368	441	378	412	540	424	470	468	523	586

Theory 1:

The effect of low sugar diet in autism specter disorders was evaluated by a recent study. 75 out of 183 boys on low sugar diet manifested persistent signs of hyperactivity, while 100 out of 175 control boys presented such symptoms. Measure the degree of association between the application of low sugar diet and presence of hyperactivity in autism.

Theory 2:

By what means we could check for normality?

Theory 3:

How does the Kolmogorov-Smirnov test work?